

ABSTRACT

PROCESS FOR THE PREPARATION OF A COMPOSITION OF
NANOPARTICLES OF AT LEAST ONE CRYSTALLINE METAL OXIDE

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The invention relates to a process for the preparation of a composition of nanoparticles of at least one crystalline metal oxide from at least one organometallic precursor. There is(are) selected (a) precursor(s) that is(are) spontaneously reactive to oxidation, a liquid solution of the precursor(s) in a non-aqueous solvent medium is produced, and the

10 liquid solution is brought into contact with at least one oxidizing agent under reaction conditions suitable for bringing about directly the production of nanoparticles of crystalline metal oxide(s). The invention relates also to a resulting composition of nanoparticles in the form of a colloidal liquid solution.